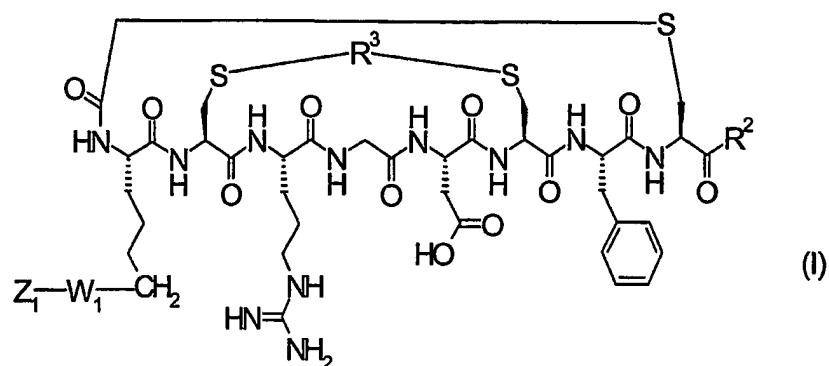


Claims

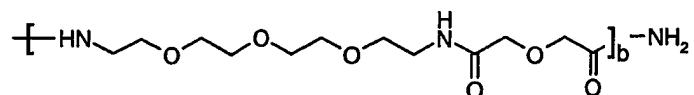
5 1. A compound of formula (I):



wherein

10

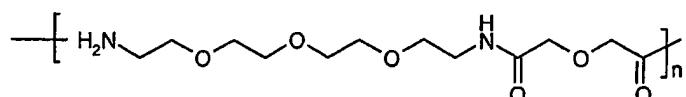
R² is



wherein b is an integer of from 0 to 10;

15 R³ is a C₁₋₄ alkylene or C₂₋₄ alkenylene bridge;

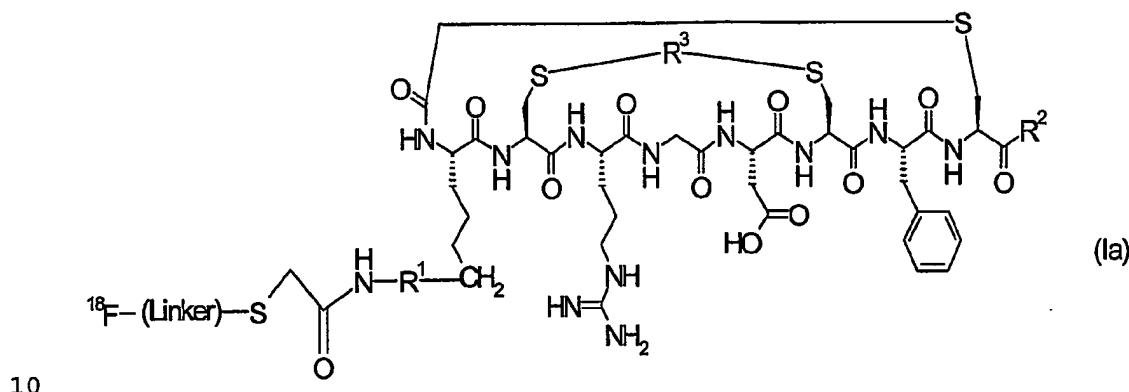
W₁ is absent or represents a spacer moiety which is a C₁₋₃₀ hydrocarbyl group optionally including 1 to 10 heteroatoms selected from oxygen, nitrogen, and sulphur, and is preferentially derived from glutaric and/or succinic acid and/or a 20 polyethyleneglycol based unit and/or a unit of Formula :



Z₁ is an antineoplastic agent, a chelating agent or a reporter moiety.

5 2. A compound of formula (I) according to claim 1, wherein Z₁ is a reporter moiety comprising a radionuclide.

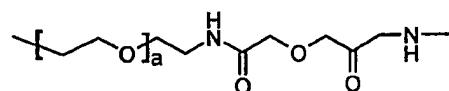
3. A compound of formula (Ia):



wherein

R¹ is either a bond or is

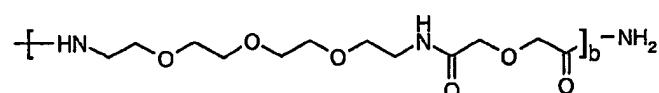
15



wherein a is an integer of from 1 to 30;

R² is

20



wherein b is an integer of from 0 to 10;

R³ is a C₁₋₄ alkylene or C₂₋₄ alkenylene bridge;

the Linker is a C₁₋₃₀ hydrocarbyl group optionally including 1 to 10 heteroatoms.

4. A compound of formula (Ia) according to claim 3 in which:

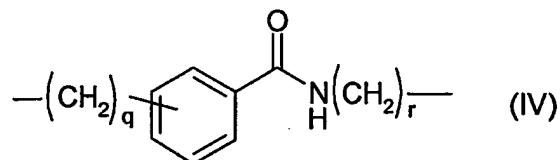
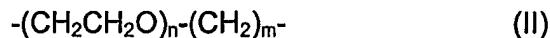
5 R³ is C₁₋₄ alkylene;
a is an integer of from 1 to 10; and
b is 1.

5. A compound of formula (Ia) according to claim 3 or 4 in which:

10 R^3 is $-CH_2-$; and
a is 5.

6. A compound of formula (Ia) according to any of claims 3 to 5 in which the Linker is selected from (II), (III) and (IV) :

15

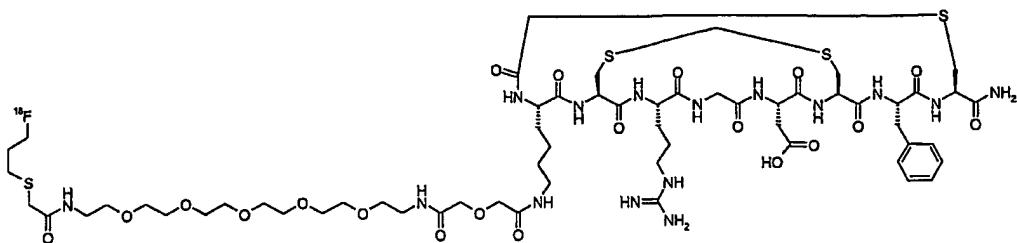


20 wherein:

- n is an integer of 1 to 20;
- m is an integer of 1 to 10;
- p is an integer of 1 to 20;
- q is an integer of 0 to 4;
- r is an integer of 1 to 10.

25 r is an integer of 1 to 10.

7. A compound of formula (Ia) according to any of claims 3 to 6 which is:



8. A compound of formula (I) or (Ia) according to any of claims 1 to 7 for use in medicine, particularly in the *in vivo* diagnosis or imaging, for example by PET, of a disease or condition associated with angiogenesis.

5

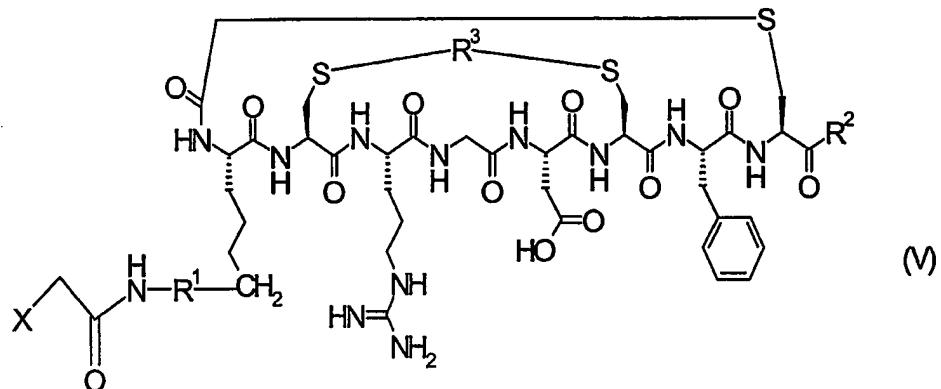
9. A method for *in vivo* diagnosis or imaging of a disease or condition associated with angiogenesis which comprises the step of administering a compound of formula (I) or (Ia) according to any of claims 1 to 7 to a human or animal body, followed by generation of an image, suitably a PET image, of part or all of said body

10

10. A radiopharmaceutical formulation comprising a compound of formula (I) or (Ia) according to any of claims 1 to 7 and one or more pharmaceutically acceptable excipients.

15

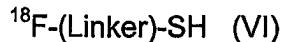
11. A method of preparing a compound of formula (Ia) as defined in any of claims 3 to 7 which comprises reaction of the corresponding compound of formula (V):



20

wherein R¹, R², and R³ are as defined for the compound of formula (Ia) and X is a

leaving group selected from chloro, bromo, and iodo, and is preferably chloro; by reaction with the appropriate compound of formula (VI):



5 wherein the Linker is as defined for the compound of formula (Ia).

12. A compound of formula (V) as defined in claim 11.

13. A kit for the preparation of a radiofluorinated peptide of formula (Ia) according 10 to any of claims 3 to 7 comprising:

(i) a compound of formula (VIa)



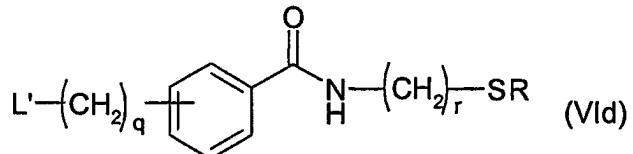
wherein L is a leaving group such as p-toluenesulphonate, 15 trifluoromethanesulphonate, or methanesulphonate, the Linker is a C₁₋₃₀ hydrocarbyl group optionally including 1 to 10 heteroatoms; R is hydrogen or a thiol protecting group; and

(ii) an activated peptide of formula (V) as defined in claim 11.

20

14. A kit according to claim 13, comprising:

(i) a compound of formula (VIb), (VIc), or (VID):



n is an integer of 1 to 20;

30 m is an integer of 1 to 10;

p is an integer of 1 to 20;

q is an integer of 0 to 4;

r is an integer of 1 to 10;

L is a leaving group such as p-toluenesulphonate, trifluoromethanesulphonate, or

5 methanesulphonate;

L' is a leaving group such as iodo, p-toluenesulphonate, trifluoromethanesulphonate, or methanesulphonate and when q is 0, L' can be nitro or an iodonium or ammonium salt,

R is hydrogen or a thiol protecting group; and

10

(ii) an activated peptide of formula (V) as defined in claim 11.